Form PT 1449U.S. DEPARTMENT OF COMMERCE Attorney Docket Serial No. No. 60680-741 10/692,165 (ABAPZ-32)PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT Applicants: Wu et al (Use Several Sheets if Necessary) Group Art Unit: -3753 374て Filing Date October 23, 2003 U.S. PATENT DOCUMENTS Filing Date if Examiner Document Date Name Class Subclass Appropriate (MM/DD/YY) Initial Number (MM/DD/YY) 4,162,703 07/31/1979 Bosaeus 4,219,079 08/26/1980 Sumitomo 4,235,285 11/25/1980 Johnson et al 03/03/1981 Friedericy et al 4,253,520 4,448,241 05/15/1984 Andres et al 02/21/1989 4,805,693 Flessate 4,932,469 06/12/1990 Beatenbough 5,209,285 05/11/1993 Joshi 12/06/1994 So et al 5,369,883 5,462,113 10/31/1995 Wand 5,689,881 11/25/1997 Kato 5,692,559 12/02/1997 Cheong 5,799,727 09/01/1998 Liu 6,035,928 03/14/2000 Ruppel et al Hedlund et al 6,109,217 08/29/2000 Bertilsson 6,164,371 12/26/2000 Blomgren et al 6,247,528 06/19/2001

Andersson et al

6,305,466

10/23/2001

FOREIGN PATENT DOCUMENTS

							Translation	
Examiner Initial	Document Number	Date	Country	Class	Sub-Class	Yes	No	
DW	0 384 316	08/29/1990	EP					
	,							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

DW	Martin Fiebig and Yuwen Chen: HEAT TRANSFER ENHANCEMENT BY WING-TYPE LONGITUDINAL VORTEX GENERATORS AND THEIR APPLICATION TO FINNED OVAL TUBE HEAT EXCHANGER ELEMENT, from P.79-105 of S. Kakac et al, Heat Transfer Enhancement of Heat Exchangers, Kluwer Academic Publishers, 1999
EXAMINER DING	Charge DATE CONSIDERED 10/15/04
	considered, whether or not citation is in conformance with MPEP 609; Draw line through the and not considered. Include copy of this form with next communication to applicant.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known Substitute for form 1449A/PTO Application Number 10/692,165 INFORMATION DISCLOSURE 10/23/2003 Filing Date STATEMENT BY APPLICANT First Named Inventor WU ET AL. Art Unit 3753 (use as many sheets as necessary) **Examiner Name** UNASSIGNED Attorney Docket Number 60,680-741 Sheet of

U.S. PATENT DOCUMENTS Pages Columns Lines Where								
Examiner Initials	Cite No.1	Document Number Number Kind Code (It known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
700		US- 6,109,217	08/29/2000	HEDLUND ET AL.				
100		US-						
		US-						
		US∙						
		US-						
		US-						
		US-						
		U\$-						
		US-						
		US-	ļ					
		US-						
		us-	·	<u></u>				
		US-						
<u> </u>		US-	ļ 					
		US-						
		US-	 					
<u></u>	-	US-	 					
	 	US-						
		US-	<u> </u>					
1		103-						

FOREIGN PATENT DOCUMENTS									
Examiner Initials*	er Cite No. ¹ Office ³ Number ⁴ Kind ⁵ (if known)		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T6			
DW			EP 1 136 667	A2	09/26/2001		<u> </u>	1	
7774	ĺ	1	EP 1 136 667	A3	04/07/2004			$oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol}}}}}}}}}}}}}}}}}}$	
-DW			GB 1 424 689		02/11/1976			\perp	
7							· · · · · · · · · · · · · · · · · · ·	-{	
								+	
						 		+-	
<u> </u>		 				-		+-	
<u> </u>								+-	
<u> </u>		\vdash						+	
		J				<u>, I., </u>	/		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional).

See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

Applicant is to place a check mark here if English language Translation is attached.

Examiner

Signature

Date

Considered

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer. U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

/	(Audi	ENATION DISCLOSURE	CITATION	Docket Number (Optional) Application Number 60680-741 10/692,165 Applicant(s)				
/0	inro	Ase several sheets if necessar	or arion	Wu, et al.				
MAR 2 5 2004 😩				Filing Date	4	Group Art Unit		
1 4	232	LA PUU		10/23/03			3753	
EEE	···	at 68	U.	S. PATENT DOCUMENTS				
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
			·					
•								
			-			·		
	,		F1	OREIGN PATENT DOCUMENT	s 	Τ		
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES NO	
				, , , , , , , , , , , , , , , , , , , 				
	1	III C. Dada-t A Bard'		THER DOCUMENTS (Includion of the Includion of the Includi	ng Author, Title, D			
NU		06/03/2003.	Seriai (40. 10/455,50	or entitled LATERAL PLAT	E FINNED HEA	LACHANG	EX med on	
101.								
EXAMINE	R	Wallery		DATE CONSIDERED	5/04			
		al if citation considered, whether o			9; Draw line throu	gh citation if no	t in conformance and	
			V					